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(54) Title: TARGETED GENE REMOVAL

(57) Abstract: A method of removing a part of a transgene after its integration into a genome comprising flanking the part of the transgene on each side with an attachment P region (attP) of bacteriophage λ and inducing intrachromosomal homologous recombination between the flanking attP regions so that the part of the transgene sandwiched between the attP regions is removed.

**INTERNATIONAL SEARCH REPORT**

International Application No

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 C12N15/82 C12N15/64 C12N15/65 A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PEREDELCHUK M Y ET AL: "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, GB, ELSEVIER SCIENCE PUBLISHERS, BARKING, vol. 187, no. 2, 18 March 1997 (1997-03-18), pages 231-238, XP004093285 ISSN: 0378-1119 the whole document ---	1,2,4,9, 16
X	EP 0 299 552 A (SOLVAY ;CLOVIS MATTON N V (BE)) 18 January 1989 (1989-01-18) the whole document ---	1,2,15, 16 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*&\* document member of the same patent family

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 21977 A (LIFE TECHNOLOGIES INC) 6 May 1999 (1999-05-06) figures 10B,11A ---	16
P,X	ZUBKO ELENA ET AL: "Intrachromosomal recombination between attP regions as a tool to remove selectable marker genes from tobacco transgenes." NATURE BIOTECHNOLOGY, vol. 18, no. 4, April 2000 (2000-04), pages 442-445, XP002165150 ISSN: 1087-0156 the whole document ---	1-22
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A	YODER J I ET AL: "TRANSFORMATION SYSTEMS FOR GENERATING MARKER-FREE TRANSGENIC PLANTS" BIO/TECHNOLOGY,US,NATURE PUBLISHING CO. NEW YORK, vol. 12, no. 3, 1 March 1994 (1994-03-01), pages 263-267, XP002043802 ISSN: 0733-222X the whole document ---	12-15, 17-22
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